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PT SE**

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(62) Document number(s) of the earlier application(s) in
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(54) **Combined vaccines comprising Hepatitis B surface antigen and other antigens**

(57) Stable and effective multivalent vaccine compositions comprising Hepatitis B surface antigen (HBsAg) are described wherein the HBsAg component is stable for one week at 37° C and is highly immunogenic, for example when the vaccine is administered to infants. The compositions typically comprise HBsAg adsorbed to aluminium phosphate and other antigens, especially those suitable for use in a paediatric vaccine, adsorbed to aluminium phosphate or aluminium hydroxide. Methods for preparing the vaccines and the use of aluminium phosphate to stabilise HBsAg in a multivalent vaccine formulation are also described.

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PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent Convention shall be considered, for the purposes of subsequent proceedings, as the European search report

EP 97 20 4034

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	COURSAGET P ET AL: "SIMULTANEOUS ADMINISTRATION OF DIPHTHERIA-TETANUS-PERTUSSIS-POLIO AND HEPATITIS B VACCINES IN A SIMPLIFIED IMMUNIZATION PROGRAM: IMMUNE RESPONSE TO DIPHTHERIA TOXOID, TETANUS TOXOID, PERTUSSIS, AND HEPATITIS B SURFACE ANTIGEN" INFECTION AND IMMUNITY, vol. 51, no. 3, March 1986, pages 784-787, XP002039957 * the whole document *	1,5-7, 10,14,15	A61K39/295 A61K39/39
X	"POLYVALENT ANTIGEN VACCINE FOR HUMAN USE" RESEARCH DISCLOSURE, no. 329, 1 September 1991, page 688 XP000226254 * the whole document *	1,5-7, 10,13-15	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			A61K
INCOMPLETE SEARCH			
<p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims.</p> <p>Claims searched completely :</p> <p>Claims searched incompletely :</p> <p>Claims not searched :</p> <p>Reason for the limitation of the search:</p> <p>see sheet C</p>			
Place of search		Date of completion of the search	Examiner
THE HAGUE		17 December 1998	Rempp, G
CATEGORY OF CITED DOCUMENTS			
<p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p> <p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			

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PARTIAL EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X,D	EP 0 339 667 A (CHEMO SERO THERAPEUT RES INST) 2 November 1989 * page 2, line 46 - page 4, line 2 * * page 5, line 24 - line 36 * * page 9, line 20 - page 10, line 39 * -----	1-6, 13, 20, 24, 25	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)

EPO FORM 1503 03.02 (P04C10)



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INCOMPLETE SEARCH
SHEET C

Application Number
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Although claim 31 is directed to a method of treatment of the human/animal body (Article 52(4) EPC), the search has been carried out and based on the alleged effects of the compound/composition.

Claim(s) searched completely:
1-30

Claim(s) searched incompletely:
31

Reason for the limitation of the search (non-patentable invention(s)):

Article 52 (4) EPC - Method for treatment of the human or animal body by therapy

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 97 20 4034

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

17-12-1998

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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		JP 8005804 B	24-01-1996
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

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